

FORM PTO-1449 U.S. Department of Commerce Patent & Trademark Office INFORMATION DISCLOSURE STATEMENT <i>(Use several sheets if necessary)</i>	Attorney Docket No. 381NP/50756	Serial No. 10/713,270 To Be Assigned
	Applicant: HIRAYAMA et al.	
	Filing Date December 14, 2001	Group 3747

U.S. PATENT DOCUMENTS							
Examiner Initial		Document Number	Date	Name	Class	Sub-Class	Filing Date (if appropriate)
ES	AA	5,190,012	3/1993	Takahashi	123	479	1/15/1992
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						

FOREIGN PATENT DOCUMENTS								
Examiner Initial		Document Number	Date	Name	Class	Sub-Class	TRANSLATION	
							Yes	No
ES ↓ ES	AK	1247723	10/1989	Japan	—————		Abstract	
	AL	11044265	2/1999	Japan	—————		Abstract	
	AM	2275041	11/1990	Japan	—————		Abstract	
	AN	4265448	9/1992	Japan	—————		Abstract	
	AO	4262031	9/1992	Japan	—————		Equivalent of U.S. Patent 5,190,012	
	AP	63272933	11/1988	Japan	—————		Abstract	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)							
	AQ						
	AR						
	AS						

EXAMINER <i>E. J. Lin</i>	DATE CONSIDERED 5/16/04
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.	

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Examiner Initial		Document Number	Date	Name	Class	Sub-Class	TRANSLATION	
							Yes	No
ES	AK	6146989	5/1994	Japan			Abstract	
↓	AL	5059994	3/1993	Japan			Abstract	
	AM	7279724	10/1995	Japan			Abstract	
	AN	8285651	11/1996	Japan			Abstract	
	AO	1290948	11/1989	Japan			Abstract	
SS	AP	5346336	12/1993	Japan			Abstract	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)							
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	AR						
	AS						

EXAMINER <i>Earl Shiu</i>	DATE CONSIDERED <i>5/16/04</i>
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FOREIGN PATENT DOCUMENTS								
Examiner Initial		Document Number	Date	Name	Class	Sub- Class	TRANSLATION	
							Yes	No
ES	AK	1224429	9/1989	Japan	 		Abstract	
ES	AL	5086934	4/1993	Japan	 		Abstract	
ES	AM	4350338	12/1992	Japan	 		Abstract	
	AN							
	AO							
	AP							

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)							
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EXAMINER E. R. S. S.	DATE CONSIDERED 5/16/04
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